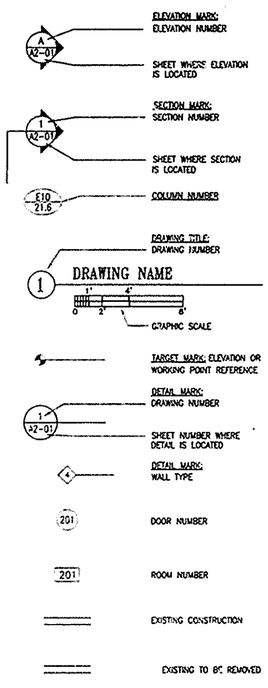
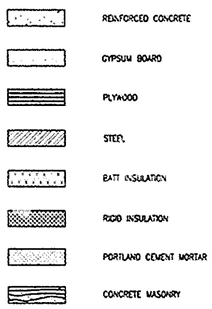
ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℄	CENTERLINE
[	CHANNEL
ø	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	NUMBER OR POUND
ABV.	ABOVE
ACOUST.	ACOUSTICAL
A.C.T.	ACOUSTIC CEILING TILE
A.D.	AREA DRAIN
A.F.F.	ABOVE FINISHED FLOOR
ADJ.	ADJUSTABLE
AGGR.	AGGREGATE
ALUM.	ALUMINUM
A.P.	ACCESS PANEL
APPROX.	APPROXIMATE
ANCH.	ANCHOR
ARCH.	ARCHITECTURAL
AUTO.	AUTOMATIC
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
BOT.	BOTTOM
BRKT.	BRACKET
BEL.	BELOW
CAB.	CABINET
CEM.	CEMENT
CER.	CERAMIC
C.G.	CORNER GUARD
C.J.	CONTROL JOINT
C.T.	CERAMIC TILE
CLG.	CEILING
CL.	CLOSET
C.M.U.	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONTR.	CONTRACTOR
CONT.	CONTINUOUS
CORR.	CORRIDOR
CPT.	CARPET
CNTR.	COUNTER
CTSK.	COUNTERSUNK
DBL.	DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DMT.	DEMOUNTABLE
DN.	DOWN
D.O.	DOOR OPENING
D.P.	DAMPPROOFING
DR.	DOOR
DWG.	DRAWING
DWGS.	DRAWINGS
DWR.	DRAWER
EA.	EACH
EXP.JT.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
EQ.	EQUAL
EQPT.	EQUIPMENT
E.W.C.	ELECTRICAL WATER COOLER
EXP.	EXPANSION
EXPO.	EXPOSED
EXIST.	EXISTING
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.	FLAT HEAD
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.S.	FACE OF STUD
F.PRF.	FIREPROOF(ING)
FR.	FRAME
F.S.	FULL SIZE
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
G.C.	GENERAL CONTRACTOR
GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.BD.	GYPSUM WALLBOARD
H.	HIGH
H.C.	HOLLOW CORE
HD.	HEAD
HDW.	HARDWARE
HT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
H.V.A.C.	HEATING,VENTILATING, AIR CONDITIONING
I.D.	INSIDE DIAMETER/ DIMENSION
IN.	INCH
INCL.	INCLUDE(D)
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
JST.	JOIST
JT.	JOINT
K.P.	KICK PLATE
KO.	KNOCKOUT
L.	LENGTH
LAB.	LABORATORY
LAM.	LAMINATE
LBL.	LABEL
L.P.	LOW POINT
LT.	LIGHT
MATL.	MATERIAL
MAS.	MASONRY
MAX.	MAXIMUM
MTL.	METAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
N.	NORTH
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
OA.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER/ DIMENSION
OFF.	OFFICE
OPP. HND.	OPPOSITE HAND
OPNG.	OPENING
OPP.	OPPOSITE
O.W.J.	OPEN WEB JOIST
O.H.	OVERHEAD
PL.	PLATE
P. LAM.	PLASTIC LAMINATE
PLAST.	PLASTER
PWD.	PLYWOOD
PLBG.	PLUMBING
PR.	PAIR
POL.	POLISHED
PT.	POINT
PTN.	PARTITION
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REFR.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
REV.	REVISION
RESIL.	RESILIENT
RFL.	REFLECTED
RGTR.	REGISTER
RM.	ROOM
R.O.	ROUGH OPENING
S.	SOUTH
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SPKL	SPRINKLER HEAD
SHT.	SHEET
SIM.	SIMILAR
SAN.	SANITARY
SPEC.	SPECIFICATION
SPKR.	SPEAKER
SQ.	SQUARE
S. SINK	SERVICE SINK
STA.	STATION
STD.	STANDARD
STL.	STEEL
S.F.	SQUARE FEET
S.S.	STAINLESS STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYS.	SYSTEM
TEL.	TELEPHONE
TEMP.	TEMPERED
THK.	THICK
T.O. SLAB	TOP OF SLAB
T.O.W.	TOP OF WALL
TYP.	TYPICAL
UNFIN.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
V.B.	VAPOR BARRIER
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
W/	WITH
WD.	WOOD
W/O.	WITHOUT
W.M.	WIRE MESH
W.P.	WORKING POINT

SYMBOL KEY



MATERIALS LEGEND



GENERAL NOTES:

1. The Contractor shall do all work in accordance with the Building Code of the City of New York and the requirements of the Americans with Disabilities Act (ADA), and rules, regulations and other local codes having jurisdiction and shall pay all costs and fees for the same.
2. Any construction signs shall be submitted in detail and be approved by the engineers prior to installation.
3. All work materials and assemblies shall conform to the Building Code of the City of New York, National Fire Protection Association and Port Authority requirements.
4. Obtain from the Port Authority of New York and New Jersey its requirements for special permit applications and be responsible for securing these permits before commencement of the respective work.
5. Welding equipment, open flame devices or "dangerous" equipment used in construction must have a permit.
6. The Contractor shall ensure that the general condition of the work site during construction will not interfere with ongoing tenant operations.
7. All work shall be performed by Contractors licensed in their trade.
8. The drawings are not to be scaled. Dimensions for removals shall be coordinated with architectural, structural, mechanical, electrical, plumbing and fire protection requirements.
9. The Contractor shall be responsible for replacing and/or repairing any equipment, materials, utilities, building/structure, etc. damaged during the course of work at no additional cost to the owner.
10. The Contractor shall assure that no exits within the building are obstructed, that safety barriers are established to prevent accidental or unauthorized access, and that work areas are kept neat, clean and safe.
11. Lighting fixtures with ballasts shall be assumed to be PCB contaminated and shall be disposed of according to NYC regulation for such, excepting lighting fixtures labeled as "not containing PCB". REMOVAL AND DISPOSAL OF PCB MUST BE PERFORMED BY LICENSED NYC/NYS CONTRACTOR.
12. The Contractor shall protect the public at all times from any danger from the Contractor's operations.

BUILDING CODE ANALYSIS:

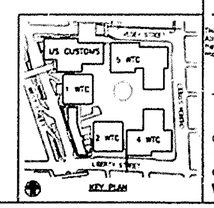
APPLICABLE CODE: BUILDING CODE OF THE CITY OF NEW YORK

FUEL OIL ROOM (LOCATED AT THE 02 LEVEL)

CONSTRUCTION CLASSIFICATION:	CLASS 1A SPRINKLERED (TABLE 4-2)
OCCUPANCY GROUP:	B-1 STORAGE (SECTION 27-246)
PERMITTED AREA:	NO LIMIT (TABLE 4-2)
NUMBER OF OCCUPANTS:	0
SEPARATION BETWEEN OCCUPANCIES:	3 HOUR FIRE DIVISION (TABLE 5-2)
REQUIRED FIRE RESISTANCE RATINGS:	WALLS: 3 HOURS DOORS: 3 HOURS ROOF: 3 HOURS STRUCTURAL MEMBERS: 3 HOURS

GENERATOR BULKHEAD - (EQUIPMENT ENCLOSURE LOCATED ON THE ROOF OF 5 WORLD TRADE CENTER)

REQUIRED FIRE RESISTANCE RATINGS OF EXTENSION OF EXISTING BUILDING:	EQUIPMENT ENCLOSURE FLOOR CONSTRUCTION INCLUDING BEAMS 3 HOURS COLUMNS SUPPORTING EQUIPMENT ENCLOSURE FLOOR 3 HOURS SHAFT BETWEEN EXISTING ROOF & EQUIPMENT ENCLOSURE FLOOR : 3 HOURS



Sheet 5 of 112

THE PORT AUTHORITY OF NY & NJ

CONFORMED DRAWING
03/03/98
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ORIGINAL SIGNED & SEALED BY N.Y. P.E. (OR R.A)

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[illegible]

LESLIE E ROBERTSON ASSOCIATES, R.L.L.P.
CONSULTING STRUCTURAL ENGINEERS
[illegible]

No	Date	Revision	Approved

Engineering Department
Design Division

The World Trade Center

Title
STANDBY POWER
5 WORLD TRADE CENTER

ARCHITECTURAL

SYMBOL KEY, SYMBOL LIST & GENERAL NOTES

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

C.B	D.J.F.	
Designed by	Drawn by	JRLA Job No
Date 11/17/97	Scale	
Contract Number WTC-945.071		Drawing Number A0-01